

PERMANENT OVERBAND A MAGNET

O V B P



SCOPE

Permanent overband magnets, OVBP, may be used on all types of bulk products, on conveyors, vibrating lines or chutes. They are intended for :

- **protecting** the plant against ferromagnetic parts,
- **refining and magnetic sorting** of transported products.

Thin and average layers are processed. Ferromagnetic parts should be present in small or average quantities in the product. They are automatically removed by a powered belt. OVBP are mainly used in :

- recycling industries (car crushers, wood, glass, plastics, selective sorting etc.),
- quarries, mines and cement works,
- the food - processing industry.

TECHNICAL SPECIFICATIONS

The magnetic circuit, an **Andrin ASP**, consists of :

- a machine-welded steel **yoke** of high permeability
- a magnetic body consisting of **ferrite magnets** with a high field value.

The unit is locked with synthetic resin in a non-magnetic box.

The frame, consisting of two U steel sections, supports :

- the ASP magnet

- two rollers, convex machined, set on dustproof bearings
- geared motor
- discharge belt, fitted with cross lugs for extracting the ferromagnetic parts
- belt tensioning system.

The belt speed is specified according to the characteristics of the product to be processed and the conveyor speed.



INSTALLATION METHOD

Suspended from chains, cables or straps, OVBP are fitted either **cross-ways** where the product unwinds or on the **centreline** at the head of the conveyor or vibrating conveyor.

Only the **geared motor set** requires electric power.

SPECIFICATIONS

Performances vary according to various parameters :

- characteristics of the products to be processed
- properties of the ferromagnetic parts to be extracted
- characteristics of the plant.

Four types of ASP are offered according to the working height :

200, 225, 275, 330 mm.

To help you choose, a questionnaire is attached in our "Iron Removal" document.

THE ADVANTAGES

Sturdiness, reliability and high performance are provided by simple design and maintenance :

- steel bearing cover
- drum shafts fitted on removable hubs
- non-magnetic **refuse flap** fitted on the upstream side when fitted cross-ways
- side safety guards
- original tensioning system, shock-proofed.

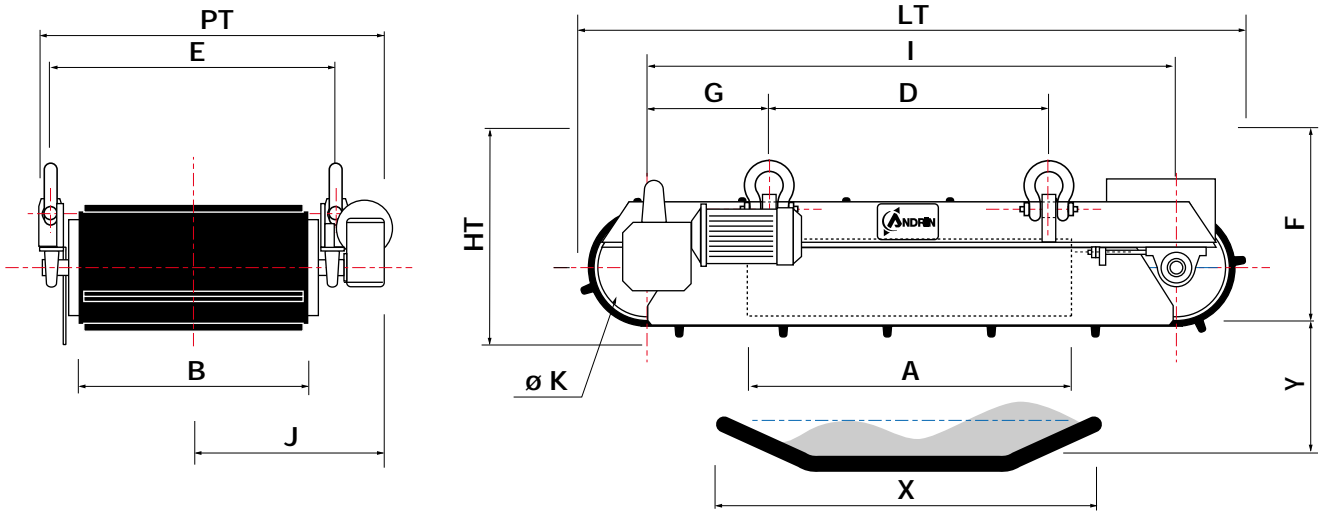
The equipment is delivered with four detachable transportation feet.

INSTRUCTIONS FOR USE

The magnetic part requires **no maintenance nor** upkeep. Greasing, changing the belt, drum shafts or geared are very easy and quick.

TECHNICAL FEATURES

OVBP



TYPE	Weight kg	Motor power kW	Dimensions (mm)												Conveyor (mm)		
			A	B	D	E	F	G	I	J	K	HT	LT	PT	Trans	X Centr	Y
25 / 40	95	0.37	400	250	200	350	155	185	570	345	85	185	720	550	500	650	140
25 / 60	120	—	600	—	400	—	—	—	770	—	—	—	920	—	800	—	—
25 / 80	145	—	800	—	600	—	—	—	970	—	—	—	1120	—	1000	—	—
25 / 100	170	—	1000	—	800	—	—	—	1170	—	—	—	1320	—	1200	—	—
25 / 120	195	—	1200	—	1000	—	—	—	1370	—	—	—	1520	—	1400	—	—
50 / 40	220	0.75	400	500	200	620	214	205	710	490	150	244	910	840	500	800	230
50 / 60	320	—	600	—	400	—	—	—	910	—	—	—	1110	—	800	—	—
50 / 80	385	—	800	—	600	—	—	—	1110	—	—	—	1310	—	1000	—	—
50 / 100	450	—	1000	—	800	—	—	—	1310	—	—	—	1510	—	1200	—	—
50 / 120	550	—	1200	—	1000	—	—	—	1510	—	—	—	1710	—	1400	—	—
80 / 60	660	1.50	600	800	400	940	307	320	1040	700	240	357	1370	1201	800	1000	300
80 / 80	810	—	800	—	600	—	—	—	1240	—	—	—	1570	—	1000	—	—
80 / 100	960	—	1000	—	800	—	—	—	1440	—	—	—	1770	—	1200	—	—
80 / 120	1120	—	1200	—	1000	—	—	—	1640	—	—	—	1970	—	1400	—	—
80 / 140	1270	—	1400	—	1200	—	—	—	1840	—	—	—	2170	—	1600	—	—
80 / 160	1450	—	1600	—	1400	—	—	—	2040	—	—	—	2370	—	1800	—	—
100 / 100	1170	—	800	1000	600	1140	—	—	1440	811	—	—	1170	1412	1200	1200	340
100 / 120	1350	—	1000	—	800	—	—	—	1640	—	—	—	1970	—	1400	—	—
100 / 140	1530	—	1200	—	1000	—	—	—	1840	—	—	—	2170	—	1600	—	—
100 / 160	1710	—	1400	—	1200	—	—	—	2040	—	—	—	2370	—	1800	—	—
120 / 80	2100	2.20	800	1200	600	1360	526	425	1450	924	450	576	2020	1637	1000	1400	410
120 / 100	2600	—	1000	—	800	—	—	—	1650	—	—	—	2220	—	1200	—	—
120 / 120	3000	—	1200	—	1000	—	—	—	1850	—	—	—	2420	—	1400	—	—
120 / 140	3450	—	1400	—	1200	—	—	—	2050	—	—	—	2620	—	1600	—	—
120 / 160	3850	—	1600	—	1400	—	—	—	2250	—	—	—	2820	—	1800	—	—

Other sizes are available. Contact our technical staff.

OPTIONS

- Endless belt
Hot hardening without clips
- Suspension frame
- Finish for food - processing
- Flameproof
- Borium Iron Neodymium
The OVBP is fitted with very high induction Borium Iron Neodymium magnets for certain products and particle sizes.